

## Product datasheet for **RG200866**

### **C11orf73 (HIKESHI) (NM\_016401) Human Tagged ORF Clone**

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** C11orf73 (HIKESHI) (NM\_016401) Human Tagged ORF Clone  
**Tag:** TurboGFP  
**Symbol:** C11orf73  
**Synonyms:** C11orf73; HLD13; HSPC138; HSPC179; L7RN6; OPI10  
**Mammalian Cell Selection:** Neomycin  
**Vector:** pCMV6-AC-GFP (PS100010)  
**E. coli Selection:** Ampicillin (100 ug/mL)  
**ORF Nucleotide Sequence:** >RG200866 representing NM\_016401  
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGTTTGGCTGCTTGGTGGCGGGGAGGCTGGTGCAAACAGCTGCACAGCAAGTGGCAGAGGATAAATTTG  
TTTTTGACTTACCTGATTATGAAAGTATCAACCATGTTGTGGTTTTTATGCTGGGAACAATCCCATTTC  
TGAGGGAATGGGAGGATCTGTCTACTTTTCTTATCCTGATTCAAATGGAATGCCAGTATGGCACTCCTA  
GGATTTGTCACGAATGGGAAGCCAAGTCCATCTTCAAAATTTTCAGGTCTAAATCTGGAGAAGGAAGCC  
AACATCCTTTTGGAGCCATGAATATTGTCCGAAGTCCATCTGTTGCTCAGATTGGAAATTCAGTGGAAAT  
ATTAGACAGTATGGCTCAGCAGACTCCTGTAGGTAATGCTGCTGTATCCTCAGTTGACTCATTCACTCAG  
TTCACACAAAAGATGTTGGACAATTTCTACAATTTTGGTTTCATCATTTGCTGCTCTCAGGCCAGATGA  
CACCAAGCCCATCTGAAATGTTTCATTCCGGCAAATGTGGTTCTGAAATGGTATGAAAACCTTCAAAGACG  
ACTAGCACAGAACCCTCTCTTTTGGAAAACA

**ACGCGT**ACGCGGCCGCTCGAG - GFP Tag - GTTTAA

**Protein Sequence:** >RG200866 representing NM\_016401  
Red=Cloning site Green=Tags(s)  
MFGCLVAGRLVQTAAQQVAEDKFVFDLPDYESINHVVFMLGTIPFPEGMGGSVYFSYPDSNGMPVWQLL  
GFVTNGKPSAIFKISGLKSGEGSQHPFGAMNIVRTPSVAQIGISVELLD SMAQTPVGNAAVSSVDSFTQ  
FTQKMLDNFYNFASSFAVSQAQMTSPSEMFIPANVVLKWYENFQRRLAQNPLFWKT

**TRTRPLE** - GFP Tag - V

**Restriction Sites:** Sgfl-MluI



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**Cloning Scheme:**


**ACCN:** NM\_016401

**ORF Size:** 591 bp

**OTI Disclaimer:** The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially in agreement with the reference, but a complete review of all prevailing variants is recommended prior to use. [More info](#)

**OTI Annotation:** This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.

**Components:** The ORF clone is ion-exchange column purified and shipped in a 2D barcoded Matrix tube containing 10ug of transfection-ready, dried plasmid DNA (reconstitute with 100 ul of water).

**Reconstitution Method:**

1. Centrifuge at 5,000xg for 5min.
2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.
3. Close the tube and incubate for 10 minutes at room temperature.
4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.
5. Store the suspended plasmid at -20°C. The DNA is stable for at least one year from date of shipping when stored at -20°C.

**RefSeq:** [NM\\_016401.4](#)

**RefSeq Size:** 1152 bp

**RefSeq ORF:** 594 bp

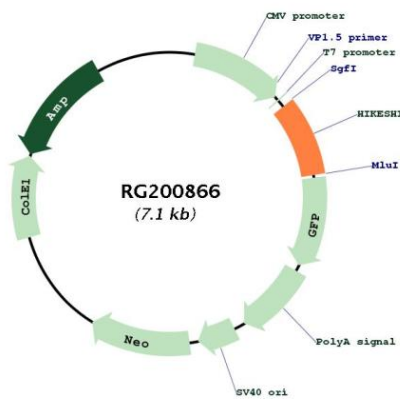
**Locus ID:** 51501

**UniProt ID:** [Q53FT3](#)

**Cytogenetics:** 11q14.2

**Gene Summary:**

This gene encodes an evolutionarily conserved nuclear transport receptor that mediates heat-shock-induced nuclear import of 70 kDa heat-shock proteins (Hsp70s) through interactions with FG-nucleoporins. The protein mediates transport of the ATP form but not the ADP form of Hsp70 proteins under conditions of heat shock stress. Structural analyses demonstrate that the protein forms an asymmetric homodimer and that the N-terminal domain consists of a jelly-roll/beta-sandwich fold structure that contains hydrophobic pockets involved in FG-nucleoporin recognition. Reduction of RNA expression levels in HeLa cells using small interfering RNAs results in inhibition of heat shock-induced nuclear accumulation of Hsp70s, indicating a role for this gene in regulation of Hsp70 nuclear import during heat shock stress. [provided by RefSeq, Apr 2016]

**Product images:**


Circular map for RG200866